

Title (en)
Controlled shear bolt assembly

Title (de)
Gesteuerte Scherbolzenanordnung

Title (fr)
Controlled shear bolt assembly

Publication
EP 1918595 A1 20080507 (FR)

Application
EP 07291302 A 20071029

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FR 0654642 A 20061030

Abstract (en)
Controlled shear bolt assembly (1) comprising: a bolt body (10) having, at a free end, a threaded portion (11) from which protrudes a central shank (12), and a head (30) designed to be able to cooperate with a rotary drive tool so that rotary motion is transmitted to the bolt body shank and, consequently, to the threaded portion, at least one ring (20) designed to be disposed on the central shank (12) and suitable for ensuring continuity of the male thread with the threaded portion (11) once disposed on the shank, wherein the bolt body presents a single controlled shear zone (14) ensuring the junction of the shank (12) and the threaded portion (11), with rotation locking means (13A,13B,22A,22B) being provided on each ring and the threaded portion to ensure rotation locking of each ring in relation to the threaded portion (11) of the bolt body (10).
A bolt (10) has a threaded portion (11) at its free end, and a shank (12) extended from the threaded portion. A ring (20) fitted on the shank has a ring thread (21) that ensures the continuity of the threaded portion of the bolt, and a shear zone (14) joins the shank to the threaded portion. The recesses (13A,13B) on the threaded portion engage with tabs (22A,22B) of the ring, to ensure rotation locking of the ring with respect to the threaded portion.

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Citation (search report)
[DA] EP 1376764 A2 20040102 - ARCUS ELEKTROTECH [DE]

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ES2355994A1; EP2759720A3; EP3079206A4; KR101883872B1

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